

# ABSTRACT

A method and an apparatus for estimating a camera motion include a frame picture memory unit for storing a plurality of moving picture frames, a buffer for sequentially extracting the frames and storing them, a block division unit for dividing each of the frames stored in the buffer into a plurality of blocks, a mean picture generation unit for generating horizontal and vertical mean pictures using the blocks, a horizontal and a vertical mean picture memory unit for storing the data of the horizontal and vertical mean pictures, a motion vector extraction unit for extracting motion vectors from the blocks using horizontal and vertical mean picture data, a motion vector memory unit for storing the data of the motion vectors, and a camera motion estimation unit for estimating a camera motion using the motion vector data.